



AUTHOR GUIDELINES

The *Southeast Asian Journal of STEM Education* is a peer-reviewed (double-blind), open-access journal whose mission is to encourage the sharing of research and practices in evidence-based STEM education and to develop a body of knowledge that advances STEM education in Southeast Asia.

Editor in Chief: Dr Orawan Sriboonruang

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Author Guidelines—As of January 2025

Southeast Asian Journal of STEM Education

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We welcome manuscripts from anyone who has interesting insights, ideas, projects, or research in STEM Education that are applicable in STEM classrooms and help to improve teacher classroom practice. Manuscripts from practitioners,

STEM educators, and researchers in Southeast Asia are particularly encouraged. However, we accept manuscripts from STEM educators around the world.

PLEASE NOTE: All manuscripts must include explicit integration or interdisciplinary connections to two or more of the four STEM subject strands.

We encourage the following types of manuscripts about STEM education:

- A. *STEM pedagogy, including assessment;*
- B. *Research papers on STEM education studies;*
- C. *Articles about STEM research findings (written for classroom teachers);*
- D. *Feature articles about established STEM education programs or projects, or descriptions of collaborative STEM models, such as those between schools, the private sector, and/or government agencies;*
- E. *Action research was undertaken by classroom teachers;*
- F. *Book reviews;*
- G. *Students' reflections on STEM projects and/or activities.*

- Please read the following guidelines carefully before submitting a manuscript. There is no charge to authors for publishing in the Journal.
- The full paper template is provided here.
https://drive.google.com/drive/folders/1wvk0XyKXJV6onMW874aSYsKPSIV9_O_r?usp=sharing
- Contact us at sajse@seameo-stemed.org if you have any inquiries or questions.
- Thank you for your interest in the *Southeast Asian Journal of STEM Education!*

A: ARTICLES ABOUT STEM PEDAGOGY

1. The article must be the original work of the author(s).
2. The article must not have been published in any other print or online journal. Exception: A research article that has been previously published in a SEAMEO or SEAMEO Regional STEM Centre-organized Conference Proceedings may be used, but it will be noted that it is a reprint with

permission. Articles from other conference proceedings will not be considered.

3. Articles must be in English. Please ensure proper usage before submitting. If the original manuscript is written in a language other than English, the author should provide a properly translated English version. The journal will publish only in English. The journal editors can help authors in ASEAN countries locate a translator in a SEAMEO centre.
4. The article must conform to the “STEM” theme (Science, Technology, Engineering [innovative design/problem solving], and Mathematics), and should involve the integration of at least two of the S-T-E-M strands, with additional interdisciplinary links encouraged. Articles describing exemplary examples that connect science, mathematics, and technology to real-world problem-solving (“Engineering design”) will be given priority.
5. The article must appeal to classroom teachers, school administrators, STEM consultants, and STEM educators, who are the main readers of this publication.
6. General articles that report on research studies and their results should use language that reflects readership (see #5). Please refer to the guidelines below for research findings.
7. The article should be 4-8 single-spaced standard letter size (8.5 x 11") pages (This does not apply to research articles). Exceptions may be granted depending on the substance and importance of understanding the content. Manuscripts are to be written single-spaced using Arial font type. The guidelines can be accessed here <https://drive.google.com/drive/folders/1wvk0XyKXJV6onMW874aSYsKPSlV9Or?usp=sharing>
8. Include an abstract of 200-300 words.
9. Citations are required if referencing other sources. Use APA (See guidelines here: https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/in_text_citations_author_authors.html)

10. Images of children require signed release forms. If a school has the signatures on file, please state when submitting. This is the responsibility of the authors.
11. Links to animations, videos, and other visuals are encouraged, with proper credits noted.
12. Editors reserve the right to alter manuscripts for formatting, length, and readability.
13. Authors have final approval of reviewed, revised, and edited manuscripts.
14. Authors retain the copyright for their article but transfer the copyright to the *Southeast Asian Journal of STEM Education* for publication.

B: RESEARCH PAPERS

- The research report must be a STEM education study.
- The manuscript. Please refer to the example of the educational research article guidelines for writing reports:
<https://libguides.bc.edu/c.php?g=44037&p=279684>
- Methodology. The research methodology is expected to use rigorous standards of design, data collection, and analysis, which include the following:
 1. Rigorous research methods;
 2. Adequate sample size to permit generalization;
 3. Detailed description of research methods;
 4. Inclusion of means and standard deviations;
 5. Preference is given to studies with a counterfactual (control or comparison group);
 6. Preference is given to studies reporting effect size.

- Please refer to the AERA standards as example for research methodology at: https://www.sagepub.com/sites/default/files/upm-binaries/13127_Standards_from_AERA.pdf
- The article should be no longer than 13 single-spaced standard letter size (8.5 x 11" or A4) pages (not counting graphics, appendices, and references). Length shall be extended, if necessary, at the discretion of the editors.
- To submit a manuscript, please send two copies: one in .doc or .docx format for editing, and one in pdf.

C: GENERAL ARTICLES ABOUT RESEARCH FINDINGS

Researchers who wish to write articles for general readership may do so, using the guidelines above (ARTICLES ABOUT STEM PEDAGOGY), but should include data, graphs, tables, etc. that help to illustrate points and must use proper APA format citations. The article does not have to follow research paper guidelines and should be no longer than 8 single-spaced pages. Exceptions for length are negotiable.

D: FEATURE ARTICLES

Feature articles about programs, projects, or models of collaborative efforts should be written in a narrative style that explains the details of the program, project, or collaboration model so that other educators may benefit from them. The article shall include the contact information of the project leaders. Photographs (jpegs) are encouraged but not required (any photo of students must have a permission form and is the responsibility of the author[s]). Research support should be noted and properly cited. The manuscript should be no longer than 6 single-spaced pages. See guidelines for STEM PEDAGOGY above.

E: ACTION RESEARCH

Action research refers to a study undertaken by a classroom teacher during instructional time in order to answer a question about an issue involving teaching and learning, such as the efficacy of methodology, student outcomes, student attitudes, etc. in order to improve the teacher's effectiveness. For this journal, the

action research must be done during a STEM lesson or series of lessons or a STEM project. The manuscript should not be longer than 10 single-spaced pages. For information about writing an action research report, visit <https://jalt-publications.org/node/4985/articles/5631-linking-research-action-simple-guide-writing-action-research-report>

F: BOOK REVIEWS

Book reviews must be of publications that are specifically about STEM education and that would be helpful to classroom teachers. For guidelines and tips about writing book reports, refer to <https://wts.indiana.edu/writing-guides/writing-book-reviews.html>

G: STUDENTS' REFLECTIONS ON STEM PROJECTS AND/OR ACTIVITIES

Theme: STEM in Education for the Future of Southeast Asians

Sub-themes:

- (1) Everyday Life
- (2) Industry Problems/Challenges
- (3) Community & School
- (4) Bio-Circular-Green (BCG) Economy

The categories are further explained below.

(1) Everyday Life (problems that happen in everyday life and need a STEM solution. For example, taking labels off an object, opening packages, holding a hot beverage, storing a mobile phone and earphones, etc.).

(2) Industry Problems/Challenges (encountered in careers in health and wellness, hospitality and culinary arts, information technology, smart agriculture, or renewable energy).

(3) Community & School (consider their social, economic, or environment impacts). For example, local community or school problems or challenges related to erosion, traffic, flooding, clean water, wastewater, litter, pedestrians, animal control, etc.

(4) Bio-Circular-Green (BCG) Economy (consider their social, economic, or environmental impacts or sustainability model).

Publication decisions

The editors ensure that all submitted manuscripts being considered for publication undergo a double-blind peer review by reviewers who are experts in the STEM fields. The Editor-in-Chief is responsible for deciding which of the manuscripts submitted to the journal will be published, based on the validation of the work in question, its importance to researchers and readers, the reviewers' comments, and such legal requirements as are currently in force regarding libel, copyright infringement, and plagiarism. The Editor-in-Chief may confer with Associate Editors or reviewers in making this decision.

Involvement and cooperation in investigations

The Editor-in-Chief (in conjunction with the publisher and/or Associate Editors) will take responsive measures when ethical concerns are raised with regard to a submitted manuscript or published paper. Every reported act of unethical publishing behavior will be investigated, even if it is discovered years after publication. If, on investigation, the ethical concern is well-founded, a correction, retraction, expression of concern, or another note as may be relevant, will be published in the journal.

Suspected plagiarism

The editor will often investigate instances of suspected plagiarism using online plagiarism checkers and will communicate with the author(s) to receive a response and if the suspicion is well-founded, the manuscript will be rejected.

Send all manuscripts and inquiries to sajse@seameo-stemed.org